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optical disc copy protect pointer

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- 2003

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Results 1 -

Optical disc with copy protection, and apparatus and method for recording and reproducing s

HC Davis, CA Nelson, GJ Keller - US Patent 5,809,006, 1998 - Google Patents

... 15, 1998 Sheet 8 of 11 (O) \$£ G: Page 11. US Patent 5,809,006 Sep. 15, 1998 Sheet 9 of 11 1010

 1020 SELECT INDICATOR ADDRESS \r READ POINTER AND NO. ... Page 14. 5,809,006 **OPTICAL**
DISK WITH COPY PROTECTION, AND APPARATUS AND METHOD FOR ...
[Cited by 11](#) - [Related articles](#) - [All 2 versions](#)
[CITATION] The Optical File Cabinet: a random-access file system for write-once optical disks

J Gait, B Tektronix - Computer, 1988

[Cited by 85](#) - [Related articles](#) - [All 4 versions](#)
[PDF] Protecting file systems: A survey of backup techniques

A Chervanek, V Vellanki, Z Kurmas - ... Joint NASA and IEEE Mass Storage ..., 1996 - Citeseer

 ... The simplest way to **protect** a file system against **disk** failures or file corruption is to ... Lower levels

 of the hierarchy may include magnetic **disk**, magnetic tape and **optical disk** drives. **Copy** storage

pools are lower levels of the storage hierarchy that are used specifically for backup. ...

[Cited by 106](#) - [Related articles](#) - [View as HTML](#) - [All 20 versions](#)
Optical disk system emulating magnetic tape units

RV Keele, CD Mautner, TJ Thorpe, SR ... - US Patent ..., 1995 - Google Patents

 ... 31aJ 7 ^ il // s ^^~\ 310 ID BYTES **DISK** TYPE **DISK** LABEL RESERVED ... INITIALIZE INTERRUPTS

 408 INITIALIZE TERMINAL SCREEN 410 INITIALIZE **OPTICAL** DRIVES 412 ... OR FLOPPY

 HANDLER YES CHECK PROGRESS OF COMMAND **COPY OPTICAL** DRIVE STATUS ...

[Cited by 30](#) - [Related articles](#) - [All 2 versions](#)
The Rio file cache: Surviving operating system crashes

PM Chen, WT Ng, S Chandra, C Aycock, G ... - Proceedings of the ..., 1996 - portal.acm.org

 ... 1 Introduction A modern storage hierarchy combines random-access memory, magnetic **disk**,

 and possibly **optical disk** or mag- netic tape to try to keep pace with rapid advances in proces ...

Rio Disk- Rio with without Based **Protection Protection** 2 1 ... 4 **copy** overrun off-by-one 1 2 1 ...

[Cited by 173](#) - [Related articles](#) - [BL Direct](#) - [All 57 versions](#)
Method for stega-cipher protection of computer code

SA Moskowitz, M Cooperman - US Patent 5,745,563, 1998 - Google Patents

 ... of a program are loaded into 30 1. A method for **copy protection** of computer ... an encoded code

 resource from the identified Handles, which are double-indirect **pointers** to memory ... Wave Sys-

 magne-to-**optical disk** and a memory cartridge, terms' approach to security of software, if ...

[Cited by 59](#) - [Related articles](#) - [All 4 versions](#)
[CITATION] DVD-Video: Multimedia for the masses

J Taylor - IEEE Multimedia, 1999

[Cited by 10](#) - [Related articles](#) - [All 5 versions](#)
[CITATION] Caching strategies to improve disk system performance

R Karedia, JS Love, BG Wherry - Computer, 1994

Cited by 174 - Related articles - Bl. Direct - All 4 versions

Phoenix: a safe in-memory file system

J Galt - Communications of the ACM, 1990 - portal.acm.org

... Fault tolerant operating sys- tems may also adopt a **copy** on write strategy between ... and mapping techniques used have been successfully tested in the **Optical** File Cabinet ... LOGICAL TO PHYSICAL REPRESENTATION The Phoenix logical **disk** is represented as the leaves of a ...

Cited by 47 - Related articles - All 3 versions

Method and arrangement for preventing unauthorized duplication of **optical** discs using barriers

MA Arps, J Blixt - US Patent 5,787,068, 1998 - Google Patents

... mentation includes one or more decoy data files that cannot be properly read by the **optical** head. ... between the decoy and the real files and thus would be frustrated trying to **copy** these files. ... installation, and if finding that they did not have an error, determine that the **disc** was not ...

Cited by 6 - Related articles - All 4 versions

Optical disk having electronic watermark, reproducing apparatus thereof and **copy** protecting method using the same

H Yamada, H Ando, T Kojima, K Hirayama - US Patent 6,490,683, 2002 - Google Patents

... 3,2002 (54) **OPTICAL DISK** HAVING ELECTRONIC WATERMARK, REPRODUCING APPARATUS THEREOF AND **COPY** PROTECTING METHOD USING THE SAME (75) Inventors: Hisashi Yamada, Yokohama; Hideo Ando, Tokyo; Tadashi Kojima; Kouichi Hirayama, both of ...

Cited by 2 - Related articles - All 2 versions

Point-in-time backup utilizing multiple **copy** technologies

MA Hays, RM Kern, DM Shackelford - US Patent 6,078,932, 2000 - Google Patents

... on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... which are not **protected** by a point-in-time technology remain **protected** by serialization. As a result, the resources held during restart include concurrent **copy** sessions, snapshot copies ...

Cited by 8 - Related articles - All 2 versions

Multi controller

K Fujita, S Sato - US Patent App. 09/803,140, 2001 - Google Patents

... 37 IMF **DISK** DRIVE -1001 ... VRO (STILL PICTURE AUDIO FILE) VR MANGER.BUP AUDIO_TS\IFO(AMGI FILE) AUDI_TS\BUP(AMGI BACKUP FILE) ATS_01 ... 1to1 CJY 00 : MOVIE CELL, 20 (h): STILL PICTURE CELL 2 to 3 C_EPLNs NUMBER OF- SEARCH POINTER OF ...

Cited by 3 - Related articles - All 4 versions

[PDF] Rio: Storing Files Reliably in Memory

P Chen, C Aycock, W Ng, G Rajamani, R ... - 1995 - Citeseer

... Storage hierarchies combine random-access memory, magnetic **disk**, and possibly **optical disk** and magnetic tape to ... but the **copy** is not **protected**, so individual stores to the **copy** would not ... reliability semantics of memory-mapped files without needing to write pages back to **disk**. ...

Cited by 3 - Related articles - View as HTML - All 8 versions

DVD controller with embedded DRAM for ECC-block buffering

HC Nguyen, SH Ho - US Patent 6,167,551, 2000 - Google Patents

... While such **optical-disk** controllers have been effective for CD-ROM **optical** disks, DVD-ROM controllers use Page 11. ... Because full-length motion pictures can be stored on DVD disks, scrambling, encryption, and **copy-protection** are nec- essary for DVD readers. ...

Cited by 6 - Related articles - All 2 versions

Sensitive security points in PC microcomputers: understanding for building secure solutions to intrusions

D Guinier - ACM SIGSAC Review, 1992 - portal.acm.org

... A greater complexity. • The importance of uninfected backup copies. ... Because of the diversity of "viruses" and their different action modes, archiving the system should be preferable on **optical disk** WORM support ... (eg a write **protect** file will give the ...

Cited by 2 - Related articles - All 2 versions

Comparing **disk** and memory's resistance to operating system crashes

WT Ng, CM Aycock, G Rajamani, PM Chen - issre, 1996 - computer.org

... modern storage hierarchy combines random-access memory, magnetic **disk**, and possibly **optical disk** or mag ... that the system remained running long enough to propagate the corruption to **disk**. **Copy** overruns have a relatively high chance of corrupting the file cache because the ...

Cited by 23 - Related articles - All 6 versions

Using write-once memory for database storage

D Maier - Proceedings of the 1st ACM SIGACT-SIGMOD ..., 1982 - portal.acm.org

... clean room conditions, since the recording surface is **protected** from dust, smoke and fingerprints, unlike other systems for laser written ... **haunted**. We need ways to **copy** current values of ... References [Am] GJ Amman. "Wideband **optical disc** data recorder systems." Proc. ...

Cited by 20 - Related articles - All 2 versions

Method and apparatus for preventing data copying from a **disk** using data lengths too large for pirate medium

H Nakajima, T Kitada, H Ogawa - US Patent 5,832,088, 1998 - Google Patents

... Thus, an illegal **copy** from the CD-ROM to a blank **disk** becomes substantially useless, thereby making it possible to effectively **protect** a copyright of the CD-ROM. 21 Claims, 28 Drawing Sheets Page 2. US Patent 5,832,088 Nov. ...

Cited by 3 - Related articles - All 2 versions

Optical disc copy prevention system

A Winter, S Podhajski - US Patent App. 10/009,648, 2001 - Google Patents

... Therewith, according to the present invention a method is defined how to modify the physical data stream on an **optical storage disc** to influence ... format, eg audio data recorded in one session, can still access a record carrier provided with the **copy protection** according to ...

All 6 versions

Copy protection of optical discs

MD Jackson, RAA Haylen, B Solish - US Patent App. 10/492,925, 2002 - Google Patents

... generally arranged in a hierarchical structure having a root directory and other sub-directories, and the removed **pointer** may have ... 6a when the **disc** has been **copy protected**, [0055] FIG. 7 shows schematically the information on an **optical disc** with multiple sessions, [0056] FIG ...

All 2 versions

OPTICAL DISK WITH COPY PROTECTION

HC Davis, CA Nelson, GJ Keller - 1999 - freepatentsonline.com

... Abstract not available for EP0902947 Abstract of corresponding document: US5809006

Copy-protected optical disk format, **optical** ... In another aspect, an authorized **optical disk** has data bit indications along a ... The **disk** further has stored thereon an indication of the number of ...

Cached - All 2 versions

Content **protection** system for **optical data storage disc**

SB Volk - US Patent App. 10/383,193, 2003 - Google Patents

... [0037] To illustrate the operation of the content **protection** system, suppose ... entertainment content) is read from **disc** 1 and copied onto another storage device, such as an **optical disc**. If the person who made the **copy** attempts to read the copied data, the application running in ...

All 2 versions

Optical disc, recording device and reproducing device

M Kaoru, O Tomoyuki, T Kazuhiro, S Noriko - 2002 - freepatentsonline.com

... 47 is a flow chart of an operation for recording audio data management information to **optical disc**; Fig. ... 7. TM_ZONE (time zone). Records the time zone used for all time information recorded to the **disc**. ... 00b: analog **copy protection** not enabled 01b: type 1 10b: type 2 11b: type 3. ...

[Cached](#)

Method for protecting content stored on an information carrier

RA Brondijk, MJJB Maes - US Patent App. 10/482,144, 2003 - Google Patents

... Such **optical** record carriers usually carry a unique number which can easily be used as ... If that **disc** is already in the database and "n">"N", the actions as above will be ... 1. A method for protecting content comprising embedded **copy protection** data stored on an information carrier ...

[All 6 versions](#)

The copy protection of digital audio compact discs

RAA Heylen, R Edward - US Patent App. 09/958,445, 2001 - Google Patents

... [0036] A **copy protected** digital audio compact **disc** of the ... As well as defining physical properties of the **disc**, such as its dimensions, and its **optical** properties, such as the laser wavelength, the Red Book also defines the signal format and the data encoding to be used. ...

[All 10 versions](#)

Method of copy detection and protection using non-standard toc entries

PHC Bentveisen, PF Vollebregt - US Patent App. 10/511,218, 2003 - Google Patents

... Therein an **optical** pick-up unit 6 is provided for accessing and reading a **disc**. ... A demodulated signal is outputted as a result indicating if the accessed **disc** is an original (if TOC entries are written in a non-standard way) or a **copy** (if TOC entries are written in a standard ...

[All 4 versions](#)

Method and device for protecting user information against manipulations

WFJ Fontijn - US Patent App. 10/517,973, 2003 - Google Patents

... is preferably applied to **protect** administrative and/or security information, in particular **copy protection** information, usage rights, asset keys, device revocation lists, key locker **pointers** and/or cryptographic keys. Such information is stored in a key locker area on an **optical disc**. ...

[All 5 versions](#)

Content packet distribution system

... R Whitmore, DM Goldschlag, DW Kravitz ... - US Patent App. 09/ ..., 2001 - Google Patents

... This invention provides a mechanism for providing and retrieving content on a medium such as a DVD **optical disc**. One aspect of the present invention provides content by processing and packing data packets onto the medium. ... **Copy Protection** and Playback Control Page 2. ...

[All 3 versions](#)

Memory efficient method and apparatus for reading and caching of DVD data

LA Decarmo - 2002 - freepatentsonline.com

... therefore results in faster read-ahead operations without risking failure due to **copy protection** violations. ... Such as a computer readable media, eg diskette, CD-ROM, ROM, or fixed **disc** or transmittable ... can be either a tangible medium, including but not limited to **optical** or analog ...

[Cached](#)

Apparatus and method for recording and reproducing video data

H Unno - US Patent App. 09/986,201, 2001 - Google Patents

... that the storage of reduced image data may involve a problem from the viewpoint of **protection** of a ... image data in the management file 61a, while when an "only-one-generation-copy-enabled" video ... a **pointer** indicative of the storage position of the image in the **optical disc** 10 is ...

[All 4 versions](#)

Host-based caching method and system for **copy protected** content

US Patent 6,260,143, 2001 - Google Patents

... DATA POSITION TO 0/624 SET CACHE FILLED FLAG TO TRUE/626 **COPY** REMAINING DATA FROM START OF CACHE TO CALLER'S DATA BUFFER ADVANCE **POINTER** TO NEXT ... The digital versatile **disc** system is capable of reading **copy protected** data from a ...

[Related articles](#) - [All 2 versions](#)

Copy protected DVD and method for producing and validating same

B Softish, M Brody - US Patent App. 09/993,916, 2001 - Google Patents

... [0013] A further embodiment of **copy protection** is effect ... a predetermined maximum number of tries is exceeded, then the **disc** under test is very likely an unauthorized **copy**. ... with an embodiment of the invention, a method for producing a signature on a digital **optical disc** (DVD). ...

[All 3 versions](#)

IS & C system and file **protection** mechanism

N Ohyama - Computer methods and programs in biomedicine, 1994 - Elsevier

... control File status Access control Original Read/Erase Authorized original Read Authorized **copy** Read Not ... data filing systems for medical use are required to have file **protection** or access ... K. Ogawa and S. Hashimoto, Clinical application of a magneto-**optical disc** image filing ...

[Related articles](#) - [All 4 versions](#)

Virtual addressing of **optical** storage media as magnetic tape equivalents

RV Keele, CD Mautner, TJ Thorpe, SR ... - US Patent ..., 1995 - Google Patents

... 0-31 (LBA) // » 30 31 312- II) 310 ID BYTES **DISK TYPE DISK LABEL RESERVED** ... r* e 402 408 i, LOAD REMAINDER OF BOOT FROM FLOPPY INITIALIZE SCSI **OPTICAL** **drives** e ... Sheet 13 of 15 VECTOR TO HARD OR FLOPPY HANDLER 9 **COPY OPTICAL DRIVE STATUS** ...

[Cited by 45](#) - [Related articles](#) - [All 2 versions](#)

Device and method for decoding data streams from storage media

F Massoudi - US Patent 6,363,511, 2002 - Google Patents

... for convenient storage devices with even greater storage capacity, a new **optical** media known ... a DVD medium is stored in a similar manner as the traditional CD-ROM **disc**. ... the remaining bytes are used to store information related to error detection, **copy protection**, and payload ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Error correction method

RJ Stenfort - US Patent 6,457,156, 2002 - Google Patents

... 11 Execute next instruction if statement is true: q = q cnt 15 achieved; and (3) to perform encryption (ie, compact **disc copy protection**) operations based ... 2 shows a block diagram of several hardware components that are integrated into a **optical** drive device 200, in accordance ...

[Related articles](#) - [All 2 versions](#)

Computer data storage **backup** with tape overflow control of **disk** caching of **backup** data stream

P Armangau, SR Dunham - US Patent 6,549,992, 2003 - Google Patents

... Internet Draft, filename 5.829.046 A 10/1998 Tzelnic et al 71 1/162 "draft-stager-iquid-netapp-backup-0.5.txt ... 3 C. >1 11 o C > LJ LU CD > C C * > > 0 e > ON 0^ /-1 00 CACHED **DISK** **STC** c t ... too oa: j Q- l- l- A 0 0 0 0 ^-m SNAPSHOT VOLUME X LIST OF **POINTERS** TO FREE ...

[Cited by 9](#) - [Related articles](#) - [All 2 versions](#)

Recording/reproducing apparatus and picture recording reservation method of recording/reproducing apparatus

M Gunji, H Kataoka, T Yoneyama - US Patent App. 10/155,231, 2002 - Google Patents

... Then, picture recording reservation time information and the remaining capacity of the **disk** are calculated and whether or not ... Sequence header setting section Video processor Buffer memory RDI pack Setting section microcomputer block Work RAM **Copy** information detection ...

All 4 versions

Intelligent backup and restoring system and method for implementing the same
 MM Goshey, G Maffezzoni, GCT Wu, YC Lin, ... - US Patent .., 2002 - Google Patents
 ... 1A 04b 108 103 104 SCSI Host Adapter 106 ^ ^^^ Peripheral Storage Device 104a External
 HARD **DISK** 100 Host Computer System FIG. ... 3 of 21 Repair Host Computer System and prepare
 peripheral Storage Device to be an intelligent genesis backup **protection** System 114 ...
 Cited by 13 - Related articles - All 4 versions

[BOOK] Operating system concepts

A Silberschatz, PB Galvin, G Gagne, A Silberschatz - 1994 - cv.ink.dk
 ... There, errors are frequently process-independent (for instance, the corruption of data on a **disk**),
 so there must be a global program (the ... Processes and system resources must have protections
 and must be **protected** from each other. ... c. Send by **copy** and send by reference ...
 Cited by 2673 - Related articles - View as HTML - Library Search - All 46 versions

Virtual memory primitives for user programs

AW Appel, K Li - Proceedings of the fourth international conference ..., 1991 - portal.acm.org
 ... smaller PAGESIZE than is normally used with **disk** pag- ... must alternate: they cannot operate truly
 concurrently because they might, simultaneously try to **copy** the same object to ... algorithm sets
 the virtual-memory **protection** of the un- scanned area's pages to be "no access." M ...
 Cited by 254 - Related articles - All 53 versions

RECORDING/REPRODUCING APPARATUS AND METHOD FOR PROGRAMMING RECORD OF THE RECORDING/REPRODUCING APPARATUS

M Gunji, H Kataoka, T Yoneyama - 2003 - freepatentsonline.com
 ... The hard **disk** device 2001 is contained in the apparatus and the **optical disk** 1001 is removable ...
 the above DVD-video, information to manage information of one **disk** is recorded on the **disk**. ...
 of the M_VOB, video start time and end time of the VOB, **copy protection** information are ...
 Cached - All 3 versions

Computer system and process for accessing an encrypted and self-decrypting digital informatio product while restricting access to decrypted digital information

JJ Glover - US Patent 6,052,750, 2000 - Google Patents
 ... Computer programs or other digital information also may be encrypted in order to prevent an
 individual from making a useful **copy** of the information ... Generally, digital information is decrypted
 to **disk**, and not to main memory of the computer which is more **protected** by the ...
 Cited by 16 - Related articles - All 4 versions

Textbase for humanities applications: Wordcruncher

M Olsen - Computers and the Humanities, 1987 - Springer
 ... Avenue Provo, UT 84604 Note: For optimal performance, 640k RAM and either a hard **disk**,
 removable cartridge system or **optical disk** is recommended. ... The encrypted files themselves are
 not **copy protected**. ... can be blocked out in reverse video and sent to the printer or **disk** file. ...
 Cited by 4 - Related articles - All 3 versions

DVD recording/reproducing apparatus having a high-speed copying capability

M Nozaki, S Kikuchi - US Patent 6,396,998, 2002 - Google Patents
 ... 28, 2002 Sheet 1 of 17 11A 21B 1ST **DISC** DRIVE 2ND **DISC** DRIVE KEYBOARD ... May 28, 2002
 Sheet 11 of 17 C2 Yes DETERMINE FILE **POINTERS**, UPDATE READOUT ... Yes TRANSFER
 DECODER 15 INTO NORMAL MODE FETCHED / Yes FETCH **COPY PROTECTION** INF ...
 Cited by 2 - Related articles - All 2 versions

Method and apparatus for backing up a **disk** drive upon a system failure

G Maffezzoni - US Patent 6,385,707, 2002 - Google Patents

... 1A 101 108 100 External HARD **DISK** 106 104b 104a 103 SCSI Host Adapter 104 106 Peripheral Storage Device ,, 100 \ V Host ... 2002 Sheet 3 of 24 Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system 114 J ...

Cited by 8 - Related articles - All 2 versions

Optical disc controller and optical disc apparatus using the same

K Watanabe, T Suzuki, A Hatsusegawa, M ... - US Patent App. 10/ ..., 2002 - Google Patents
... 5,2002 (54) **OPTICAL DISC CONTROLLER AND OPTICAL DISC APPARATUS USING THE SAME** (76) Inventors: Katsuya Watanabe, Nara (JP); Tatsuo Suzuki, Kyoto (JP); Akihiro Hatsusegawa, Kyoto (JP); Masanobu Takahashi, Osaka (JP) Correspondence Address: Neil A. ...

Cited by 1 - Related articles - All 4 versions

Optical storage of page images and pictorial data-opportunities and needed advances in inform retrieval

WR Nugent, JR Harding - Proceedings of the eighth symposium on ..., 1983 - portal.acm.org
... will have the option to command an offline batch printer to print those pages that he wishes to receive in hard **copy** form ... **Not protected** by US copyright ... The first method, which we call the "Bound Volume" approach, is the digital **optical disk** equivalent to the usual library practice of ...

Cited by 3 - Related articles - All 4 versions

Disk apparatus, and recording method using the same

M Kanai, H Unno - US Patent App. 10/320,365, 2002 - Google Patents
... 3,2003 (54) **DISK APPARATUS, AND RECORDING METHOD USING THE SAME** (76) Inventors: Masaya Kanai, Hino-shi (JP); Hiroaki Unno, Kunitachi-shi (JP) Correspondence Address: PILLSBURY WINTHROP, LLP PO BOX 10500 MCLEAN, VA 22102 (US) (21) Appl. ...

All 3 versions

Integrating digital watermarks in multimedia content

KL Levy, BT Hannigan, BA Bradley, GB ... - US Patent App. 10/ ..., 2002 - Google Patents
... or signals stored in a storage device, such as a portable storage device (eg, **optical** or magnetic **disk** or tape ... Other examples include multimedia collections that are packaged together on a storage device, such as **optical** or magnetic storage ... [0043] **Copy Protection** [0044] In a ...

Cited by 1 - Related articles - All 4 versions

[BOOK] The computer music tutorial

C Roads - 1996 - books.google.com
... practical until 1924 (Keller 1981). Figure 1.2 depicts one of the horn-loaded loud-speakers typical in the 1920s. **Optical** sound recording on film was first demonstrated in 1922 (Ristow 1993). Sound recording on tape coated ...

Cited by 802 - Related articles - Library Search - All 11 versions

Laser optical disk: the coming revolution in on-line storage

L Fujitani - Communications of the ACM, 1984 - portal.acm.org
... The recorded information is thereby **protected** from physical damage. ... In some cases, the backup can be made by writing two disks simultaneously. ... FIGURE 3. The Workings of the Read/Write Head of the Laser **Optical Disk Drive** f1S2 Communications of the ACM ...

Cited by 53 - Related articles - All 3 versions

Methods and apparatus for continuous control and protection of media content

TG Shamoon, RD Hill, CD Radcliffe, JP Hwa - 2003 - freepatentsonline.com
... either the CMPO and/or other CI and/or the CMPS contains a **pointer** to certain ... one CMPS arrangement handles all of the processing (a DVD (or other **optical disk**) player which ... output stream would be encrypted as per the "five company proposal" for **copy protection** using IEEE ...

Cached - All 4 versions

Method for addressing a bit stream recording

M Winter - 2000 - freepatentsonline.com

... to a method and to an apparatus for addressing a bitstream to be recorded or being recorded on a storage medium, eg an **optical disc**. ... **Copy Protection** must be supported. ... The files storing the **disc** content are placed under the STRECC directory which is under the root directory. ...

[Cached](#)**Apparatus and method for an installation recovery system**

KP Davis - US Patent 6,189,147, 2001 - Google Patents

... Installation programs are necessary for **copy protected** applications which cannot be copied by normal system commands ... BI 8 an erasable programmable read-only memory (EPROM or Flash memory) (magnetic), an **optical fiber (optical)**, and a portable compact **disc** read-only ...

Cited by 5 - Related articles - All 3 versions

Data disc modulation for minimizing pirating and/or unauthorized copying and/or unauthorized access of/to data on/from data media including compact discs and ...

DW Stebbings - US Patent 6,636,689, 2003 - Google Patents

... 21,2003 Sheet 1 of 26 US 6,636,689 BI **DISC** PLAYING TIME: 74 MINUTES, 33 SECONDS
MAXIMUM ROTATION: COUNTER-CLOCKWISE ... 0.5 um **OPTICAL** SYSTEM STANDARD
WAVELENGTH: X = 780 nm (7.800A) FOCAL DEPTH: $\pm 2\mu\text{m}$ (X/NA < 1.75 um, NA: NUMERICAL ...

Cited by 1 - Related articles - All 2 versions

Device for recording data, record carrier and method for recording data

PHC Bentvelsen, WFJ Fontijn - US Patent App. 10/511,976, 2003 - Google Patents

... [0005] An example of data that can be **protected** is music. ... These rights may be, for example, the right to **copy** the data once. ... Also, an **optical disc** may be used for the record carrier, or other media such as a magnetic **disc** or tape may be used. ...

[All 5 versions](#)**Method for generating a footprint image file for an intelligent backup and restoring system**

GCT Wu, TT Bui, MM Goshay - US Patent 6,374,363, 2002 - Google Patents

... 16,2002 Sheet 1 of 24 US 6,374,363 BI 102 104c External ^ **HARD DISK** FIG. ... 16,2002 Sheet 3 of 24 US 6,374,363 BI Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system Insert cartridge having a media into ...

Cited by 5 - Related articles - All 2 versions

Recorded contents protection scheme for digital recording/reproducing system

S Kikuchi, H Ando, K Taira, Y Ito, H Mimura, H ... - US Patent ..., 2003 - Google Patents

... 10,2003 (54) RECORDED CONTENTS **PROTECTION** SCHEME FOR DIGITAL RECORDING/REPRODUCING ... FILE ID PADD 1 NG SYSTEM USE (**COPY** RIGHT MANAGEMENT ... RECORDING LAYER 17 RECORDABLE/READABLE (OR REWRITABLE) **OPTICAL DISC** 10 FIG.1 ...

Cited by 1 - Related articles - All 2 versions

MULTIMEDIA OPTICAL DISK ON WHICH AUDIO DATA OF A PLURALITY OF CHANNELS A SUB-VIDEO DATA TOGETHER WITH TIME-VARYING IMAGE DATA, ...

K Yamauchi, M Kozuka, K Tsuga, K Murase, S Saeki, K ... - 2002 - freepatentsonline.com

... The title search **pointer** table stores a **pointer** pointing to the location of the PGC information which is executed first when the ... **Disc** reproduction apparatus 1 reproduces the **optical disc** (DVD) according to instructions sent from remote controller 91 and outputs picture signals and ...

[Cached](#) - All 4 versions**Disk array controller with enhanced synchronous write**

P Dornier, D Kikinis - US Patent 5,835,955, 1998 - Google Patents

... system that derives its emergency power from an uninterruptable power supply (UPS) is **protected** for an ... 1 wherein the array of non-volatile storage drives comprises writable magneto-**optical disc**

drives. ... as in claim 1 wherein the log drive controller flags the third **copy** of each ...

[Cited by 7](#) - [Related articles](#) - [All 4 versions](#)

Recording medium having a plurality of sections storing root directory information

M Ohgake - US Patent App. 09/793,132, 2001 - Google Patents

... to information (programs or data) recorded on a recording medium or an illegal **copy** of such ... to a directory structure, the data recorded on the recording medium being **protected** from being ... The data recorded on the **optical disc** 1, which includes directories or files, is read by ...

[All 3 versions](#)

Availability and recovery of files using **copy** storage pools

DM Cannon, MA Kaczmarek, DP Warren Jr - US Patent 6,148,412, 2000 - Google Patents

... The client system transfers twice as much data to the server to maintain back-up **protection** for a single ... pool consists of a set of storage devices of the same type, either DASD, **optical disk**, or magnetic ... A first storage pool, a primary storage pool, stores a primary **copy** of client files ...

[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

Archival and retrieval system accessing an external storage by polling internal queues from remote terminals minimizing interruption of a host processor

DN MacDonald - US Patent 5,530,899, 1996 - Google Patents

... Backup to floppy **disk** is technically possible but time consuming, since most directories will be at least ... The data on the **optical** platter is permanently written and cannot be erased and has a ... platters can be recorded using a dual drive system and standard DOS **copy** commands. ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

System, method and computer program product to automatically select target volumes for a fast **copy** to optimize performance and availability

L Nguyen, MJ Seaman, SMAA Jafri - US Patent App. 10/387,000, 2003 - Google Patents

... a portion thereof, on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... The backup/restore subsystem is used to **protect** against loss of data ... type of problem, the latest version of those data sets which are stored in a backup/restore subsystem ...

[All 4 versions](#)

Method of storing BIOS modules and transferring them to memory for execution

CE Stevens - US Patent App. 10/629,191, 2003 - Google Patents

... digital video **disk** (DVD) drive, a floppy **disk** drive, a Zip drive, a SuperDisk drive, a Magneto-**Optical disk** drive, a Jazz drive, a high density floppy **disk** (HiFD) drive ... The dispatch manager executes to sequentially **copy** selected BIOS modules identified in its list of tasks to execute ...

[Cited by 3](#) - [Related articles](#) - [All 4 versions](#)

The design of POSTGRES

M Stonebraker, LA Rowe - ACM Sigmod Record, 1986 - portal.acm.org

... Its date appear, and notice IS given that copying IS by permission of the Association for Computing Machinery To **copy** otherwise, or ... implementing custom designed VLSI chips Our fifth goal, then, IS to investigate a design that can effectively utilize an **optical disk**, several tightly ...

[Cited by 675](#) - [Related articles](#) - [All 21 versions](#)

Digital recording/reproducing apparatus

S Kikuchi, K Fujita, H Kataoka - US Patent App. 09/951,773, 2001 - Google Patents

... 2. Description of the Related Art [0005] In recent years, **optical disc** players, for playing back **optical** discs with ... other hand, a recordable/reproducible DVD has a small storage capacity as compared with a hard **disk**. Moreover, it is impossible to record **copy-protected** information ...

[All 4 versions](#)

Snapshot **copy** facility for a data storage system permitting continued host read/write access

P Arnangau - US Patent 6,434,681, 2002 - Google Patents

... In the preferred implementation, the data storage system allocates to the snapshot **copy** a bit map to indicate storage locations in the production data set that have been modified, and a list of **pointers** to allocated storage locations for the snapshot **copy**. ...

Cited by 15 - Related articles - All 2 versions

Drive preparation methods for intelligent **backup** systems

G Maffezzoni, MM Goshey - US Patent 6,289,426, 2001 - Google Patents

... 1A 101 100 External HARD **DISK** 106 104b 108 104a 103 SCSI Host Adapter 104 106 Peripheral Storage Device 100 Host Computer ... Sheet 3 of 25 Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system Insert ...

Cited by 5 - Related articles - All 2 versions

Domestic Patent References

MJ Nicholls - OPTICAL ENGINEERING, 1987 - freepatentsonline.com

... As a result, the control data SC1 can be made difficult to observe and to decode. In addition, it becomes hard to physically **copy** the pit width which changes in accordance with the control data SC1. ... Then, the lower-layer **disc** plate 26A of the **optical disc** 26 shown in Figs. ...

Cached - All 2 versions

System for computer software **protection**

JC McCarty - US Patent 5,666,411, 1997 - Google Patents

... Thus, this form of media **copy protection** a decade, yet no general-purpose devices are currently being discouraged ... **protection** algorithm by monitoring the port and bus lines (1988 ... Instead, enciphered programs are stored on **disk** and loaded into "private" memory for execution. ...

Cited by 19 - Related articles - All 2 versions

Technical Field

R Daniels, L Nelson, A Dalimann, D Le - System, 2003 - freepatentsonline.com

... The connection to communication network 212 may be through an **optical** coupling or more conventional conductive cabling ... within a single LUN 112 a, 112 b such that a first range of logical **disk** addresses (LDAs ... A persistent **copy** of the memory representation shown in FIG. ...

Cached - All 2 versions

Digital imaging in the radiation oncology environment: A personal computer local area network solution

PM Stalford, EE Martin, JCH Chu, BA Davidson, ... - Journal of Digital ..., 1991 - Springer

... ate archived to the VAX cluster to maintain working space on the LAN **optical disk** (G,H ... Along the top of the images, the FILE menu allows selection of **disk** drives available to the ... capabilities of MID are provided by the EDIT menu, which allows UNDO, CUT, **COPY** and PASTE of ...

Cited by 10 - Related articles - All 2 versions

Method for implementing point-in-time **copy** using a snapshot function

DR Blea, DR Blea, MA Haye, RM Kern, DM ... - US Patent ..., 2001 - Google Patents

... a backup/restore subsystem is typically used to save a recent **copy** or version of one or more data sets or portion thereof on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... The backup/restore subsystem is used to **protect** against loss ...

Cited by 19 - Related articles - All 2 versions

[BOOK] Bharat Dictionary of Computer

K Jain - 2003 - books.google.com

... Access Limites — A limit set for the number of people who can read, use, or alter a set of **protected** data files. Access Mechanism — A mechanical device in the **disk** storage unit to position the read/write heads on proper tracks for the retrieval/storage of data. ...

All 2 versions

[CITATION] In-memory database systems

S Graves - Linux Journal, 2002 - portal.acm.org

... The **copy** in the database cache is eventually written to the filesystem, where it is updated in the filesystem cache. ... This is a major difference from **disk**-based databases. ... can be a pipe to another process or a filesystem **pointer** (any filesystem, whether it's magnetic, **optical** or Flash ...

Cited by 6 - Related articles - All 2 versions

Server verification of requesting clients

S Field, MW Thomlinson, A Cooper - US Patent 6,253,324, 2001 - Google Patents

... Such data items might stored on the hard **disk**, magnetic **disk** 29, **optical disk** 31, include cryptographic ... steps performed by the operating system loader, in order to 65 create a **copy** of the ..., the requesting client program has not been altered in comparison to the on-**disk** image file. ...

Cited by 3 - Related articles - All 2 versions

Method and apparatus for configuring a hard disk and for providing support for a computer syst

R Rive - US Patent 6,281,894, 2001 - Google Patents

... Specifically, the first partition is **protected** from user modification when the first ... DEFINE 1ST SUPPORTED HARD **DISK** PARTITION; 2ND UNSUPPORTED HARD **DISK** PARTITION, A ... 1ST PARTITION DESIGNATE 3RD "MIRROR" PARTITION AS ACTIVE **COPY** CONTENT OF ...

Cited by 4 - Related articles - All 4 versions

Creating, verifying, managing, and using original digital files

ML Reynolds - US Patent App. 09/999,774, 2001 - Google Patents

... to a method of retaining N+I documents on a recording medium such as a magneto-**optical disk**. ... invention may be used in conjunction with conventional data mirroring and/or data backup tools and ... This may be done, for example, by specifying a **disk** sector address, a file system ...

All 2 versions

Scalable storage architecture

DV Gerasimov, IV Gerasimov - US Patent App. 09/730,631, 2000 - Google Patents

... SSU) 86 is a software module that manages each Secondary Media Storage Device (SMSD) such as a robotically operated tape or **optical disk** library. ... to the file-system at either creation time or when **disk** is added three files are created on the master **disk**: the **copy** of the ...

All 6 versions

Apparatus and method for the availability and recovery of files using copy storage pools

DM Cannon, MA Kaczmarek, DP Warren Jr - 2002 - freepatentsonline.com

... The client system transfers twice as much data to the server to maintain back-up **protection** for a single file. ... Further, **copy** storage volumes are not meant to be limited to magnetic tape, but may comprise other storage media, such as DASD or **optical disk**. ...

Cached

Recording apparatus, recording method, and dubbing apparatus for recording or dubbing progr. and character data

Y Utsumi - US Patent App. 09/145,889, 1998 - Google Patents

... 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 Maker code Model code First TNO Last TNO 00000000 00000000 00000000 00000000 Used Sectors 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 **Disc** Serial No **DISC** ...

All 4 versions

Method and apparatus to access data records in a cache memory by multiple virtual addresses

JS Beisan, JT O'Brien - US Patent 5,379,391, 1995 - Google Patents

... data record by sim- in particular, to a data record **copy** apparatus in a **disk** ply generating a new set of **pointers** to reference the drive array that instantly makes a **copy** of an ... Thus, by simply generating a second memory and with cache consistency **protection** for set of **pointers** ...

[Cited by 12](#) - [Related articles](#) - [All 2 versions](#)

System and method for generating point in time storage **copy**

CE Lubbers, JM Reiser, A Korgaonkar, RL ... - US Patent App. 10/ ... , 2001 - Google Patents
... 54) SYSTEM AND METHOD FOR GENERATING POINT IN TIME STORAGE **COPY** (76) Inventors ...
data accuracy when write I/O operations are directed to a logical **disk**. 501 STATE LMAP **POINTER**
RSSID PHYSICAL MEMBER SELECTION RAID INFO STATE LMAP **POINTER** ...

[Cited by 1](#) - [Related articles](#) - [All 3 versions](#)

System and method for database save and restore using self-**pointers**

ME Nagy - US Patent 6,115,721, 2000 - Google Patents
... of the invention to provide a memory device, such as a transmission medium, magnetic or **optical**
tape or **disc**, or the like ... However, any storage 20 device, such as magnetic tape, **optical** storage,
or even volatile storage devices may be used for storing the backup image of ...

[Related articles](#) - [All 2 versions](#)

System to demonstrate and sell computer programs

CE Molnar, AL Backus - US Patent 5,166,886, 1992 - Google Patents
... as hard **disk**, vendible; organizes said information for broadcast; and 5 battery backed RAM, floppy
disk, magnetic tape ... 23, broadcast memory 3) The Computer Sites #34 #57: provide apparatus
10 #24, and backup storage #26 ... 1, a limited set of com- 15 netic ^^ or **optical** media. ...

[Cited by 23](#) - [Related articles](#) - [All 2 versions](#)

Information recording apparatus and method, information reproducing apparatus and method, information recording program and information reproducing program, ...

T Sawabe, M Nakahara - US Patent App. 10/339,664, 2003 - Google Patents
... control information and encoded distributed information on an **optical disk** DK. ... OF THE
DISTRIBUTED REPRODUCTION CONTROL INFORMATION - S34 **COPY** THE COMMON ... ATTRIB-
UTE INFOR- MATION CONVERSION DATA SEARCH **POINTER** NUMBER INFORMATION ...

[All 5 versions](#)

Primary Class

SM Beloussov, SS Protassov, AG Tomasov, AV ... - System, 1999 - freepatentsonline.com
... the advantage in that they retain in the stack the value of the stack **pointer**. ... instructions are
instructions that cannot be patched or analyzed correctly, such as **copy protect** instructions or ...
a removable storage drive 614 , representing a magnetic tape drive, an **optical disk** drive, etc. ...

[Cached](#) - [All 2 versions](#)

Image filing system for protecting partial regions of image data of a document

H Masuzaki, S Ito, H Fujisawa, M Fujinawa, N ... - US Patent ..., 1993 - Google Patents
... MARK POSITION 77 SECRET REGION SETTING COMPLETED 9 YES 81 SET SECRET REGION
79 INSTRUCT REGISTRATION OF IMAGE SET **PROTECTION** MODE 80 ... 10 is a flowchart showing
the procedures car- ried out to **copy** an image onto the **optical disk**; FIG. ...

[Cited by 4](#) - [Related articles](#) - [All 2 versions](#)

[CITATION] Development of Omniserver

DA Ameson - Tenth IEEE Symposium on Mass Storage Systems, ..., 1990

[Cited by 6](#) - [Related articles](#) - [All 3 versions](#)

Systems and methods for data **backup** over a network

B Munay, A Lewitzky, T Boldt - US Patent App. 10/251,499, 2002 - Google Patents
... The backup data is usually encrypted to **protect** against the release of proprietary information
and ... Examples of storage media, in order of access speed, include: RAID **disc**; **optical**; nearline;
and tape ... 1. A method for storage of data files, comprising: creating a baseline **copy** of the ...

[All 3 versions](#)

optical disc copy protect pointer

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